

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/012238

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C12N15/09, C07K14/47, C12N5/08, A61K35/26, A61P35/00, A61P37/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C12N15/09, C07K14/47, C12N5/08, A61K35/26, A61P35/00, A61P37/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

SwissProt/PIR/Geneseq, GenBank/EMBL/DDBJ/Geneseq, WPI (DIALOG),  
BIOSIS (DIALOG), JSTPlus (JOIS), MEDLINE (STN)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/016511 A1 (Takara Bio Inc.), 27 February, 2003 (27.02.03), & EP 1424387 A1	1-21
X	Proc.Natl.Acad.Sci., USA, Vol.80, No.16, pages 3218 to 3222 (1983)	22-25
A	Eur.J.Immunol., Vol.21, pages 1559 to 1562, (1991)	1-21
A	Cell Immunol., Vol.135, No.1, pages 105 to 117, (1991)	1-21

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

01 October, 2004 (01.10.04)

Date of mailing of the international search report

26 October, 2004 (26.10.04)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/012238

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material



a sequence listing



table(s) related to the sequence listing

b. format of material



in written format



in computer readable form

c. time of filing/furnishing



contained in the international application as filed



filed together with the international application in computer readable form



furnished subsequently to this Authority for the purposes of search

2: ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/012238

**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

As reported in the following document 1, a technique of inducing cytotoxic T lymphocytes by using fibronectin and its fragment (for example, VLA-4 binding domain, VLA-5 binding domain, heparin binding domain or the like) had been publicly known before the application of the present case. Thus, this point cannot be regarded as a special technical feature in the meaning within PCT Rule 13.3.

According to PCT Rule 13.3, unity of inventions should be judged without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim.

Thus, the inventions relating to (continued to extra sheet)

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/012238

Continuation of Box No.III of continuation of first sheet (2)

the represented by SEQ ID NOS:1 to 20 and 25 as claimed are considered not as a group of inventions so linked as to form a single general inventive concept but as 21 invention groups respectively relating to 21 polypeptides differing from each other.

Document 1: WO 03/016511 A1 (Takara Bio Inc.) 27 February, 2003 (27.02.03)